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[12] 实用新型专利说明书

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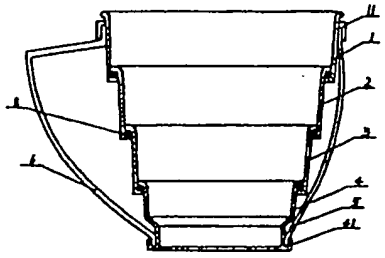
[54]实用新型名称 便携式折叠饮食杯

[57]摘要

本实用新型公开了一种便携式折叠饮食杯，它是由锥形杯体 A（1）、锥形杯体 B（2）、锥形杯体 C（3）和锥形杯体 D（4）相互配合组装并可折叠所组成，其改进之处在于：在锥形杯体 A（1）和锥形杯体 D（4）上分别制有杯耳 A（11）和杯耳 D（41），在杯耳 A（11）和杯耳 D（41）之间可装有撑条（5）和把手（6），在每一锥形杯体之间均放置有密封圈（8）；此外还有一个可盛装折叠后锥形杯体及撑条（5）、把手（6）的盒座（7）和盒盖（71）。



权 利 要 求 书

1、便携式折叠饮食杯，它是由锥形杯体A(1)、锥形杯体B(2)、锥形杯体C(3)和锥形杯体D(4)相互配合组装并可折叠所组成，其特征在于：在锥形杯体A(1)上制有二个杯耳A(11)，在锥形杯体D(4)上制有二个杯耳D(41)，在杯耳A(11)和杯耳D(41)之间可装有撑条(5)和把手(6)；在每一锥形杯体之间均放置有密封圈(8)；此外还有一个可盛装折叠后锥形杯体及撑条(5)、把手(6)的盒座(7)和盒盖(71)。

2、根据权利要求1所述的饮食杯，其特征在于：密封圈(8)截面形状为圆形、V型和U型；密封圈(8)可直接制作在锥形杯体上或单独制作后再装到锥形杯体上。

3、根据权利要求1所述的饮食杯，其特征在于：锥形杯体数量可以少于四个或多于四个。

说 明 书

便携式折叠饮食杯

本实用新型涉及旅行用具，尤其是属于可折叠的饮食杯。

背景技术中人们出门旅行或学生上学，均有必要自带能方便折叠的饮食用具，如专利申请号92223694所公开的旅行折叠杯就是通常采用的一种，这种折叠杯虽可折叠在一起，但由于打开使用时在杯体折叠之间无防漏措施，并且没有装支撑杯体的撑条，因此使用中带来一定的不便。

本实用新型的目的在于，提供一种采用密封圈和撑条的折叠杯，使得饮食杯在使用过程中不会有泄漏和因受压后折叠起来而影响使用的情况发生。

本实用新型所采取的技术方案是：它是由锥形杯体A1、锥形杯体B2、锥形杯体C3和锥形杯体D4相互配合组装并可折叠所组成，其改进之处在于：在锥形杯体A1上制有二个杯耳A11，在锥形杯体D4上制有二个杯耳D41，在杯耳A11和杯耳D41之间可装有撑条5和把手6；在每一锥形杯体之间均放置有密封圈8；此外还有一个可盛装折叠后锥形杯体及撑条5、把手6的盒座7和盒盖71。

本实用新型的优点在于①由于本实用新型在各折叠杯之间均装有密封圈，因此可保证使用时不会泄漏。②由于本实用新型采用撑条和把手，因此当盛装东西时具有支撑的作用，能克服在某些情况下杯子会因受压折叠起来而引起使用不便的困难。③由于本实用新型制有盒座和盒盖，盒座除了在使用时放置折叠杯，还可以在不使用时将所拆下的撑条、把手以及折叠杯折起，放入盒座之中，此外由于盒座中的空间还可以放置食匙等，因此使用方便，无需另备食匙等。④由于本实用新型盒盖可以采用多种丰富多彩的外形，如动物头型等，因此具有趣味性并增加美感，尤其适合于小学生使用。

下面是本实用新型的具体实施例

图 1 为饮食杯使用时原理图

图 2 为折叠后饮食杯外部图

图 3 为图 2 的A－A剖视图

其中 1. 锥形杯体A 11. 杯耳A 2. 锥形杯体B 3. 锥形杯体C 4. 锥形杯体D 41. 杯耳D 5. 撑条 6. 把手 7. 盒座 71. 盒盖 8. 密封圈

如图1所示为本实用新型使用时的原理图，它是由锥形杯体A1、锥形杯体B2、锥形杯体C3和锥形杯体D4相互配合组装，可折叠和撑开，并且为了使撑开后不致受压折起，在锥形杯体A1上制有二个杯耳A11，在锥形杯体D4上也制有二个杯耳D41，并且在杯耳A11和杯耳D41之间用撑条5和把手6撑开，同时把手6还可以在使用时起到方便提握的作用。此外在各锥形杯体之间均放置有密封圈8，密封圈8的截面形状可以为圆形、V形或U形；密封圈 8 可以在制作锥形杯体时直接将其制作并固定在锥形杯体上或者也可以单独制作密封圈 8 后再将其装到锥形杯体上。

又如图 2 图 3 所示为折叠装起后饮食杯外部图。当饮食杯使用完毕后可以卸掉撑条 5 和把手 6 并将折叠杯洗涤后折起，随同撑条 5、把手 6 和根据需要配备的食匙等放入盒座 7 并盖上盒盖71，盒盖71为了丰富多彩可制有各种动物外形或其它形状。

此外本实用新型中锥形杯体的数量可以少于四个或多于四个。

本实用新型中的密封圈 8 可采用无毒橡胶或无毒塑料来制作。

说 明 书 附 图

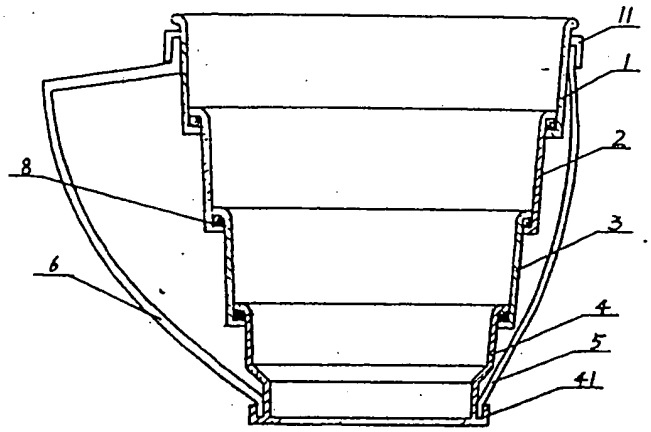


图1

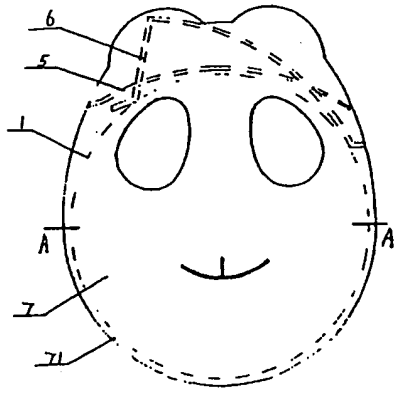


图2

A-A

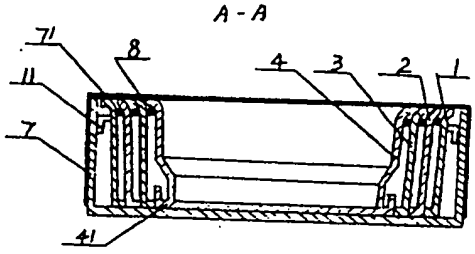


图3

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[12] Utility Model Application

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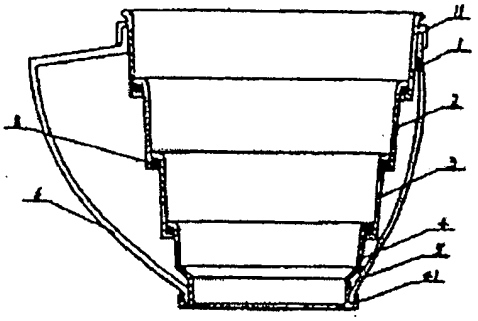
[21] Application number: 96203857.1

1 Page of Claims, 2 page of Description and 1 page of Drawings

[54] Title of the Invention: **Portable folding cup**

[57] Abstract:

This utility model relates to a portable folding cup for drinking, comprising a conical body A (1), a conical body B (2), a conical[1] body C (3), and a conical body D (4), wherein the bodies are fitted into each other and foldably combined together, wherein the following areas have been improved: a side lug A (11) and a side lug D (41) are provided to the conical body A (1) and conical body D (4), respectively; a support bar (5) and a handle (6) are fitted between the side lug A (11) and the side lug D (41); and a sealing ring (8) is attached between each of the conical bodies. In addition, a box (7) and a box cover (71) are provided to contain the folded conical bodies. A support bar (5) and a handle (6) are also provided.



[1] Translator's note: Liteally, "awl-shaped"in the original.

Claims

1. A portable folding cup, comprising a conical body A (1), a conical body B (2), a conical body C (3), and a conical body D (4), wherein the bodies are fitted into each other and foldably combined together, characterized in that

two side lugs A (11) and two side lugs D (41) are provided to the conical body A (1) and conical body D (4), respectively;

a support bar (5) and a handle (6) are fitted between the side lugs A (11) and side lugs D (41);

a sealing ring (8) is attached between each of the conical bodies;

a box (7) and a box cover (71) are provided to contain the folded conical bodies; and

a support bar (5) and a handle (6) are further provided.

2. The portable folding cup according to Claim 1, characterized in that

the cross-sectional shape of the sealing ring (8) can be round, V-shaped or U-shaped; and

the sealing ring (8) can be directly fitted onto the cup body during manufacture, or can be made independently and then fitted onto the cup body.

3. The portable folding cup according to Claim 1, characterized in that there can be more than or less than 4 conical bodies.

Description

A PORTABLE PULL-OUT CUP

This utility model relates to a device that is used during vacations, and particularly relates to a folding cup for drinking.

Background Technology: When people go for vacations or go to school, there is a need to carry convenient folding cups for drinking. A commonly used folding cup is the folding cup for vacation use disclosed in Patent Number 92223694. Nevertheless, although the cup in Patent Number 92223694 can be folded, there is no device to prevent leakage when the cup is opened for use, and a support bar to support the cup is not installed, which results in some inconvenience when using the cup.

An object of this utility model is to provide a portable folding cup that uses sealing rings and a support bar in order to prevent leakage or collapsing of the cup when it is used.

The object of this utility model is implemented in the following manner. The cup comprises a conical body A (1), a conical body B (2), a conical body C (3), and a conical body D (4), wherein the bodies are fitted into each other and foldably combined together, wherein the following areas have been improved: a side lug A (11) and a side lug D (41) are provided to the conical body A (1) and conical body D (4), respectively; a support bar (5) and a handle (6) are fitted between the side lug A (11) and side lug D (41); a sealing ring (8) is attached between each of the conical bodies; a box (7) and a box cover (71) are provided to contain the folded conical bodies; and a support bar (5) and a handle (6) are further provided.

The advantages of this utility model are as follows.

(1) Since this utility model uses a sealing ring between the various folded bodies, there would be no leakage when the cup is used.

(2) Since this utility model uses a support bar and handle, it will be supported when filled with contents, which will prevent inconvenience of using the cup in the event that it is collapsed from pressure.

(3) Since this utility model uses a box and a box cover, the cup can be placed in the box when in use. When the cup is not in use, it can be folded, and the support bar, handle and folded cup can be stored inside the box. In addition, a spoon can be stored in the empty space inside the box, thus adding to the convenience of use because a spoon does not need to be carried along separately.

(4) Since this utility model is able to make use of a variety of external forms, such as the form of an animal head, it can be designed to have a more interesting and aesthetic look and feel, making it suitable for school students to use.

Fig. 1 is an illustrative diagram showing the cup in a state of use.

Fig. 2 is an external sectional diagram of the cup that has been folded.

Fig. 3 is a cross-sectional diagram for the cross section A-A in Fig. 2.

In the diagrams above, (1) refers to the conical body A, (11) refers to side lug A, (2) refers to the conical body B, (3) refers to the conical body C, (4) refers to the conical body D, (41) refers to side lug D, (5) refers to the support bar, (6) refers to the handle, (7) refers to the box, (71) refers to the box cover, and (8) refers to the sealing ring.

Fig. 1 illustrates the manner in which this utility model works in practice. The model comprises a conical body A (1), a conical body B (2), a conical body C (3), and a conical body D (4), wherein the bodies are fitted into each other and can be folded and opened. In order to

prevent the cup from collapsing when it is opened, two side lugs A (11) and two side lugs D (41) are respectively fitted at the conical body A (1) and conical body D (4), a support bar (5) and a handle (6) are fitted between the side lugs A (11), and side lugs D (41) to open the cup, and the handle (6) can also be used to hold onto the cup. A sealing ring (8) is attached between each of the conical bodies, and the cross-sectional shape of the sealing ring (8) can be round, V-shaped, or U-shaped. The sealing ring (8) can be directly fitted onto the cup body during manufacture, or can be made independently and then fitted onto the cup body.

Figs. 2 and 3 are external sectional diagrams of the cup that has been folded. After the cup has been used, the support bar (5) and handle (6) can be released, and the cup can be folded after it is washed. The cup, support bar (5), handle (6), and a spoon are then stored inside the box (7), which is then covered with the box cover (71). The cup cover (71) can be designed in the shape of an animal or any other shapes in order to give it a more interesting aesthetic appeal.

There can be more than or less than 4 conical bodies for this utility model.

The sealing ring (8) in this utility model can be made from nontoxic rubber or nontoxic plastic.

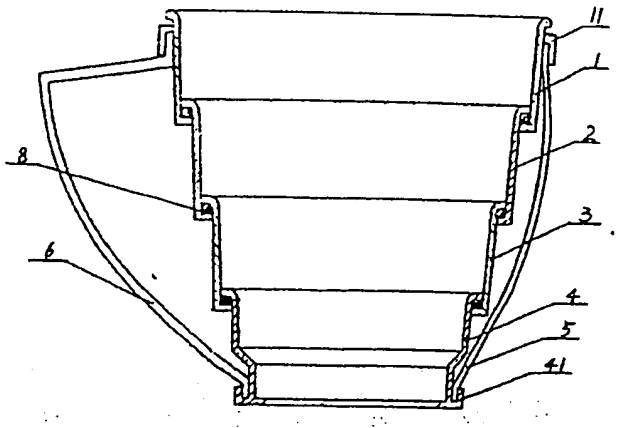


Figure 1

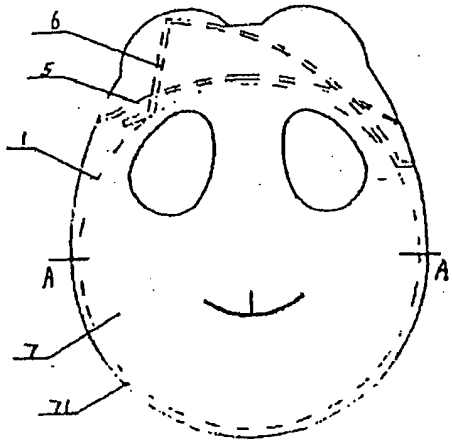


Figure 2

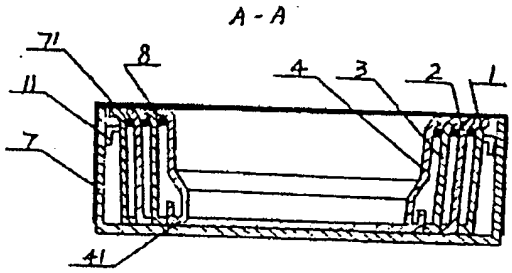


Figure 3